

consisting of alkoxylation, polymerization, acetylation, oxidation, reduction, concentration, hydrogenation, partial hydrogenation, interesterification, double bond modification, randomization, and refinement.

3. The composition of claim 2 wherein said pre-treated original organic materials further comprises extracts selected from the group consisting of amaranth seed oil, anise seed oil, avocado seed oil, barley oil, briza oil, buck wheat oil, candelilla wax, carnuba wax, cassia occidentalis oil, coffee bean oil, deoiled lecithin, dog fish oil, esparto wax, oils from fungi and other microorganisms, guayule plant extract, jojoba oil, jurinea oil, lanolin, laurel berry oil, olestra (olean), olive oil concentrate (phytosqualene), olive seed oil, orange roughy oil, ouricury wax, quinoa seed oil, rye germ oil, shark liver oil, shea butter, sperm whale oil, sugar cane wax, sunflower wax, tall oil, tall oil distillate, Vegepure from wheat grains, and wheat germ oil.

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4. The composition of claim 1 comprising at least 20% by weight of unsaponifiables.
5. The composition of claim 2 comprising at least 20% by weight of unsaponifiables.
6. A substantive composition comprising the composition of claim 1 in combination with at least one ingredient selected from the group consisting of emollients, conditioners, pigments, dyes, pharmaceuticals, ultraviolet radiation absorbers, physical radiation blocks, insect repellants, animal repellants, insecticides, pesticides, herbicides, animal attractants, fragrances, and hormones.
7. A substantive composition comprising the composition of claim 2 in combination with at least one ingredient selected from the group consisting of emollients, conditioners, pigments, dyes, pharmaceuticals, ultraviolet radiation absorbers,

physical radiation blocks, insect repellants, animal repellants, insecticides, pesticides, herbicides, animal attractants, fragrances, and hormones.

8. A substantive composition comprising the composition of claim 4 in combination with at least one ingredient selected from the group consisting of emollients, conditioners, pigments, dyes, pharmaceuticals, ultraviolet radiation absorbers, physical radiation blocks, insect repellants, animal repellants, insecticides, pesticides, herbicides, animal attractants, fragrances, and hormones.
9. A substantive composition comprising the composition of claim 5 in combination with at least one ingredient selected from the group consisting of emollients, conditioners, pigments, dyes, pharmaceuticals, ultraviolet radiation absorbers, physical radiation blocks, insect repellants, animal repellants, insecticides, pesticides, herbicides, animal attractants, fragrances, and hormones.
10. A method of providing substantive benefits to an animal subject comprising applying the composition of claim 1 to the hair, skin, scales, or feathers of an animal subject.
11. A method of providing substantive benefits to an animal subject comprising applying the composition of claim 2 to the hair, skin, scales, or feathers of an animal subject.
12. A method of providing substantive benefits to an animal subject comprising applying the composition of claim 6 to the hair, skin, scales, or feathers of an animal subject.
13. A method of providing substantive benefits to an animal subject comprising applying the composition of claim 7 to the hair, skin, scales, or feathers of an animal subject.

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22. A composition for topical application comprising polar hydrophilic salts mixed with non-polar unsaponifiables, said polar hydrophilic salts being the products of hydrolysis of a saponifiable fraction in the original organic materials, said original organic materials comprising at least 6 weight percent long carbon chain materials prior to the hydrolysis of the organic materials, said long carbon chain materials having at least 18 carbons in length.
23. The composition of claim 22 wherein said original organic materials were pre-treated prior to hydrolysis, said pre-treatment selected from the group of treatments consisting of alkoxylation, polymerization, acetylation, oxidation, reduction, concentration, hydrogenation, partial hydrogenation, interesterification, double bond modification, randomization, and refinement.
24. The composition of claim 23 wherein said pre-treated original organic materials further comprises extracts selected from the group consisting of amaranth seed oil, anise seed oil, avocado seed oil, barley oil, briza oil, buck wheat oil, candelilla wax, carnuba wax, cassia occidentalis oil, coffee bean oil, deoiled lecithin, dog fish oil, esparto wax, oils from fungi and other microorganisms, guayule plant extract, jojoba oil, jurinea oil, lanolin, laurel berry oil, olestra (olean), olive oil concentrate (phytosqualene), olive seed oil, orange roughy oil, ouricury wax, quinoa seed oil, rye germ oil, shark liver oil, shea butter, sperm whale oil, sugar cane wax, sunflower wax, tall oil, tall oil distillate, Vegepure from wheat grains, and wheat germ oil.
25. The composition of claim 22 comprising at least 20% by weight of unsaponifiables.
26. The composition of claim 23 comprising at least 20% by weight of unsaponifiables.

27. A substantive composition comprising the composition of claim 22 in combination with at least one ingredient selected from the group consisting of emollients, conditioners, pigments, dyes, pharmaceuticals, ultraviolet radiation absorbers, physical radiation blocks, insect repellants, animal repellants, insecticides, pesticides, herbicides, animal attractants, fragrances, and hormones.
28. A substantive composition comprising the composition of claim 23 in combination with at least one ingredient selected from the group consisting of emollients, conditioners, pigments, dyes, pharmaceuticals, ultraviolet radiation absorbers, physical radiation blocks, insect repellants, animal repellants, insecticides, pesticides, herbicides, animal attractants, fragrances, and hormones.
29. A substantive composition comprising the composition of claim 25 in combination with at least one ingredient selected from the group consisting of emollients, conditioners, pigments, dyes, pharmaceuticals, ultraviolet radiation absorbers, physical radiation blocks, insect repellants, animal repellants, insecticides, pesticides, herbicides, animal attractants, fragrances, and hormones.
30. A substantive composition comprising the composition of claim 26 in combination with at least one ingredient selected from the group consisting of emollients, conditioners, pigments, dyes, pharmaceuticals, ultraviolet radiation absorbers, physical radiation blocks, insect repellants, animal repellants, insecticides, pesticides, herbicides, animal attractants, fragrances, and hormones.
31. A method of providing substantive benefits to an animal subject comprising applying the composition of claim 22 to the hair, skin, scales, or feathers of an animal subject.

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32. A method of providing substantive benefits to an animal subject comprising applying the composition of claim 23 to the hair, skin, scales, or feathers of an animal subject.
33. A method of providing substantive benefits to an animal subject comprising applying the composition of claim 27 to the hair, skin, scales, or feathers of an animal subject.
34. A method of providing substantive benefits to an animal subject comprising applying the composition of claim 28 to the hair, skin, scales, or feathers of an animal subject.